

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008616

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C01B31/20, B01D53/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C01B31/20, B01D53/34, B01D53/40, B01D53/50, B01D53/62,
B01D53/77, C01F11/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 04-190831 A (Hitachi, Ltd.), 09 July, 1992 (09.07.92), Full text & EP 487102 A1	1-9
A	JP 03-038219 A (Chiyoda Corp.), 19 February, 1991 (19.02.91), Full text (Family: none)	1-9
A	JP 05-023535 A (Hitachi, Ltd.), 02 February, 1993 (02.02.93), Full text (Family: none)	1-9

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
14 September, 2004 (14.09.04)Date of mailing of the international search report
28 September, 2004 (28.09.04)Name and mailing address of the ISA/
Japanese Patent Office

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 05-111614 A (Mitsubishi Heavy Industries, Ltd.), 07 May, 1993 (07.05.93), Full text (Family: none)	1-9
A	JP 50-036374 A (Kobe Steel, Ltd.), 05 April, 1975 (05.04.75), Full text (Family: none)	1-9
A	JP 06-211518 A (Ishikawajima-Harima Heavy Industries Co., Ltd.), 02 August, 1994 (02.08.94), Full text (Family: none)	1-9
A	JP 61-146318 A (Imperial Chemical Industries PLC), 04 July, 1986 (04.07.86), Full text & EP 193677 A2	1-9
A	JP 06-210129 A (Mitsubishi Heavy Industries, Ltd.), 02 August, 1994 (02.08.94), Full text (Family: none)	1-9
A	JP 63-036815 A (Mitsubishi Kasei Polytec Co.), 17 February, 1988 (17.02.88), Full text (Family: none)	1-9
A	JP 04-290526 A (Hitachi, Ltd.), 15 October, 1992 (15.10.92), Full text (Family: none)	1-9
A	JP 2002-126439 A (The Kansai Electric Power Co., Inc.), 08 May, 2002 (08.05.02), Full text & EP 1334759 A1 & US 2003/0045756 A1	1-9
A	WO 01/005489 A (Ebara Corp.), 25 January, 2001 (25.01.01), Full text & EP 1201290 A1 & CA 2379709 A	1-9

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